

Digi Connect[®] SP

Development Kit

Tools

The Digi Connect SP device server delivers a powerful, compact and cost-effective off-the-shelf hardware platform for embedded networking solutions.



Features/Benefits

- > Compact off-the-shelf hardware platform for custom network applications
- > Switch-selectable RS-232/422/485 interface
 - Throughput up to 230,400 bps
- > Integrated 10/100 Mbit network interface
- > Flexible power input of 9-30VDC
- > Significantly improves time-to-market by eliminating hardware design process
- > Easy-to-use and royalty-free, out-of-the-box development kit solution
- > Quick and cost-effective embedded application software development
- > Seamless migration path to a fully integrated system-on-chip solution

Overview

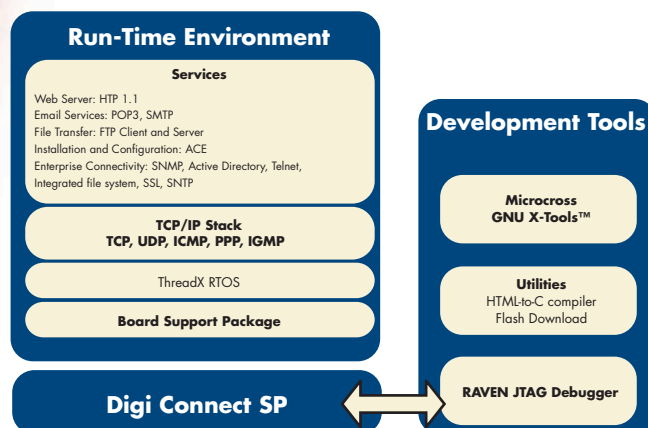
The Digi Connect SP device server is the ideal platform for your custom web- and network-enabled embedded applications. Combining Digi and NetSilicon[®] technology, it eliminates the hardware design effort and delivers a true device networking solution that is powerful enough to meet your future performance requirements.

Built on leading NetSilicon 32-bit NET+ARM technology, the Digi Connect SP device server provides a powerful off-the-shelf hardware platform for embedded web- and network applications with a seamless migration path to embedded modules and a fully integrated NetSilicon system-on-chip solution using the award-winning family of Ethernet-enabled NET+ARM microprocessors.

The Digi Connect SP Development Kit is an easy-to-use and royalty-free development platform that significantly reduces traditional design risk and accelerates the overall software development process. Based on the NetSilicon NET+Works[®] development platform, it delivers all integrated building blocks and tools to quickly and cost effectively create flexible and secure embedded applications for integrated high-performance web- and networking solutions.

Digi International makes device networking easy by developing products and technologies that are cost-effective and easy to use. With over 20 million ports shipped worldwide, Digi has been offering the highest levels of performance, flexibility, and quality since 1985.

Please contact us at 1-877-OEM-DIGI or 952-912-3444 for additional information or to discuss your application requirements.



www.digi.com

Making
DEVICE NETWORKING
easy™



Features/Specifications

FEATURES

- 32-bit NET+ARM high-performance RISC processor (NS7520 55 MHz)
 - 4 MB Flash and 16 MB RAM integrated
 - Switch-selectable RS-232/422/485 interface (DB-9M)
 - Throughput up to 230,400 bps
 - 7, 8 data bits
 - 1, 1.5, 2 stop bits
 - Mark/space/even/odd parity
 - Full signal support with software/hardware flow control
 - Auto-sensing 10/100 Mbit Ethernet interface and network link
- Development Kit with:
- Digi Connect SP w/JTAG
 - Macgraigor Raven JTAG debugger
 - NET+Works software components
 - Microcross™ GNU X-Tools with command line and visual GDB debugger
 - ThreadX® Real-Time Operating System with picokernel™ architecture
 - Fusion™ TCP/IP stack with full networking protocol and extended networking services support
 - TCP, UDP, ICMP, IGMP, DNS, SNMPv2, LDAP, POP, SMTP, PPP, FTP, SNTp, Telnet, FastIP, Fast Sockets, Multi-Homing
 - Universal IP address assignment through Address Configuration Executive (ACE)
 - Static IP, DHCP, BOOTP, Auto-IP, RARP, ARP/Ping
 - Allegro Software embedded web server with HTTPS support
 - SSL 3.0/TLS 1.0 with strong encryption
 - DES (56-bit)
 - 3DES (168-bit)
 - AES (128/256-bit)
 - Flexible and robust file system supporting RAM and Flash (with wear leveling)
 - SMICng MIB compiler
 - Micro XML SAX parser
 - Additional utilities
 - HTML-to-C compiler
 - Flash download
 - Sample code
 - Documentation
 - Digi Connect SP Hardware Reference
 - NET+OS® Programmer's Guide
 - NET+OS API Reference
 - NET+OS Advanced Web Server Toolkit
 - NS7520 Hardware Reference
 - Cables
 - Straight-thru and crossover serial cables
 - Straight-thru and crossover network cables
 - Loop-back adapter
 - Power supplies

ENVIRONMENTAL

- Storage temperature: -40° C to +90° C (-40° F to +194° F)
- Operating temperature: 0° C to 60° C (32° F to 140° F)
- Relative humidity: 5% to 90% (non-condensing)
- Altitude: 12,000 Feet (3658 Meters)

REGULATORY APPROVALS

- FCC Part 15, Class A
- EN 55022
- EN5J024
- VCCI
- AS 3548
- UL60950
- CSA 22.2
- NO.60950
- EN 60950

POWER REQUIREMENTS

- 9-30VDC @ 370 mA

DIMENSIONS

- Length: 3.876 in (9.846 cm)
- Width: 1.680 in (4.267 cm)
- Depth: 0.999 in (2.537 cm)
- Weight: 2.29 oz (6.50 g)

LEDs

- Network link
- Ethernet activity
- Custom (red)

MODEL.....PART NUMBERS

Model	North America	International
Digi Connect SP Development Kit (GNU)	DC-SP-01-GN	DC-SP-01-GN

Please visit website for a complete list of available part numbers.

DIGI SERVICE AND SUPPORT

You can purchase with confidence knowing that Digi is here to support you with expert technical support and a strong five-year warranty. <http://support.digi.com>

Digi International

11001 Bren Road E.
Minnetonka, MN 55343 USA
PH: 877-912-3444
952-912-3444
FX: 952-912-4952
Email: info@digi.com
www.digi.com

Digi International GmbH

Joseph-von-Fraunhofer Str. 23
D-44227 Dortmund
Germany
PH: +49-231-9747-0
FX: +49-231-9747-111
www.digi.de

Digi International (HK) Limited

Suite 1703-05, 17/F.
K Wah Centre
191 Java Road
North Point, Hong Kong
PH: +852-2833-1008
FX: +852-2572-9989
www.digi.cn

NetSilicon

411 Waverley Oaks Road #304
Waltham, MA 02452 USA
PH: 800-243-2333,
781-647-1234
FX: 781-893-1338
Email: info@netsilicon.com

© 2004-2005 Digi International Inc.

Digi, Digi International, the Digi logo, the Making Device Networking Easy logo, Digi Connect, Digi Connect SP, NetSilicon, NET+, NET+Works, and NET+OS are trademarks or registered trademarks of Digi International, Inc. in the United States and other countries worldwide. ARM is a trademark of ARM Limited. All other trademarks are the property of their respective owners.

91001230
A4/105

